

# How (not) to injure the preterm lung

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## Propositions accompanying the dissertation

# HOW (NOT) TO INJURE THE PRETERM LUNG

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- *new ideas for improving transition in a preterm animal model*

Matthias Hütten

1. Automated ventilation devices controlling oxygen delivery can facilitate care for preterm babies already in the delivery room. *(this thesis)*
2. Before nebulization of surfactant can be used clinically, factors determining pulmonary surfactant deposition need to be identified. *(this thesis)*
3. Vitamin A prevents BPD, and should therefore be made better available by administering it directly at the point where it is needed most – the developing alveoli. *(this thesis)*
4. Prenatal dexamethasone and postnatal caffeine work synergistically on surfactant maturation, offering another possible explanation how caffeine prevents BPD. *(this thesis)*
5. Lung injury of preterm babies starts in the delivery room, and must therefore - partially - be prevented there.
6. Lung injury in preterm infants is multifactorial, therefore researchers need to test multiple factors instead of only one, e.g. by using translational models.
7. Best care for preterm babies can only be achieved by providing the best care for their families.
8. Investing in health will produce enormous benefits. – *Gro Harlem Brundtland*
9. This is the extraordinary thing about creativity: If you just keep your mind resting against the subject in a friendly but persistent way, sooner or later you will get a reward from your unconscious. - *John Cleese*
10. Er is maar één moment dat je op tijd kunt komen. Ben je er niet, dan ben je óf te vroeg, óf te laat. - *Johan Cruyff*